

#3



ENTERED

PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,742

DATE: 03/01/2002

TIME: 14:53:09

Input Set : A:\ippf0728usn.app.txt

Output Set: N:\CRF3\03012002\J049742.raw

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5 <110> APPLICANT: INCYTE GENOMICS, INC.
6 YUE, Henry
7 BANDMAN, Olga
8 TANG, Y. Tom
9 BAUGHN, Mariah R.
10 AZIMZAI, Yalda
11 LU, Dyung Aina M.
13 <120> TITLE OF INVENTION: HUMAN CHAPERONE PROTEINS
15 <130> FILE REFERENCE: PF-0728 PCT
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/049,742
C--> 18 <141> CURRENT FILING DATE: 2002-01-26
20 <150> PRIOR APPLICATION NUMBER: 60/146,908; 60/160,924
W--> 21 <151> PRIOR FILING DATE: 1999-08-03; 1999-10-22
23 <160> NUMBER OF SEQ ID NOS: 22
24 <170> SOFTWARE: PERL Program
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 170
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
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33 <223> OTHER INFORMATION: Incyte ID No: 723593CD1
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39 20 25 30
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41 35 40 45
42 Ser Met Phe Ser Asp Asp Phe Gly Ser Phe Met Arg Pro His Ser
43 50 55 60
44 Glu Pro Leu Ala Phe Pro Ala Arg Pro Gly Ala Gly Asn Ile
45 65 70 75
46 Lys Thr Leu Gly Asp Ala Tyr Glu Phe Ala Val Asp Val Arg Asp
47 80 85 90
48 Phe Ser Pro Glu Asp Ile Ile Val Thr Thr Ser Asn Asn His Ile
49 95 100 105
50 Glu Val Arg Ala Glu Lys Leu Ala Ala Asp Gly Thr Val Met Asn
51 110 115 120
52 Thr Phe Ala His Lys Cys Gln Leu Pro Glu Asp Val Asp Pro Thr
53 125 130 135
54 Ser Val Thr Ser Ala Leu Arg Glu Asp Gly Ser Leu Thr Ile Arg
55 140 145 150

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58 Thr Glu Ile Lys Ile
59                               170
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66 <221> NAME/KEY: misc_feature
67 <223> OTHER INFORMATION: Incyte ID No: 1708350CD1
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72 Leu Gly Ile Glu Glu Lys Ala Ala Asp Lys Glu Val Lys Lys Ala
73   20           25           30
74 Tyr Arg Gln Lys Ala Leu Ser Cys His Pro Asp Lys Asn Pro Asp
75   35           40           45
76 Asn Pro Arg Ala Ala Glu Leu Phe His Gln Leu Ser Gln Ala Leu
77   50           55           60
78 Glu Val Leu Thr Asp Ala Ala Ala Arg Ala Ala Tyr Asp Lys Val
79   65           70           75
80 Arg Lys Ala Lys Lys Gln Ala Ala Glu Arg Thr Gln Lys Leu Asp
81   80           85           90
82 Glu Lys Arg Lys Lys Val Lys Leu Asp Leu Glu Ala Arg Glu Arg
83   95          100          105
84 Gln Ala Gln Ala Gln Glu Ser Glu Glu Glu Glu Ser Arg Ser
85  110          115          120
86 Thr Arg Thr Leu Glu Gln Glu Ile Glu Arg Leu Arg Glu Glu Gly
87  125          130          135
88 Ser Arg Gln Leu Glu Glu Gln Gln Arg Leu Ile Arg Glu Gln Ile
89  140          145          150
90 Arg Gln Glu Arg Asp Gln Arg Leu Arg Gly Lys Ala Glu Asn Thr
91  155          160          165
92 Glu Gly Gln Gly Thr Pro Lys Leu Lys Leu Lys Trp Lys Cys Lys
93  170          175          180
94 Lys Glu Asp Glu Ser Lys Gly Gly Tyr Ser Lys Asp Val Leu Leu
95  185          190          195
96 Arg Leu Leu Gln Lys Tyr Gly Glu Val Leu Asn Leu Val Leu Ser
97  200          205          210
98 Ser Lys Lys Pro Gly Thr Ala Val Val Glu Phe Ala Thr Val Lys
99  215          220          225
100 Ala Ala Glu Leu Ala Val Gln Asn Glu Val Gly Leu Val Asp Asn
101  230          235          240
102 Pro Leu Lys Ile Ser Trp Leu Glu Gly Gln Pro Gln Asp Ala Val
103  245          250          255
104 Gly Arg Ser His Ser Gly Leu Ser Lys Gly Ser Val Leu Ser Glu
105  260          265          270
106 Arg Asp Tyr Glu Ser Leu Val Met Met Arg Met Arg Gln Ala Ala

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125      20      25      30
126 Ala Glu Thr Gln Phe Arg Gln Leu Val Ala Ile Tyr Glu Val Leu
127      35      40      45
128 Lys Asp Asp Glu Arg Arg Gln Arg Tyr Asp Asp Ile Leu Ile Asn
129      50      55      60
130 Gly Leu Pro Asp Trp Arg Gln Pro Val Phe Tyr Tyr Arg Arg Val
131      65      70      75
132 Arg Lys Met Ser Asn Ala Glu Leu Ala Leu Leu Phe Ile Ile
133      80      85      90
134 Leu Thr Val Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Glu
135      95     100     105
136 Lys Gln Leu Asp Glu Leu Leu Ser Arg Lys Lys Arg Glu Lys Lys
137     110     115     120
138 Lys Lys Thr Gly Ser Lys Ser Val Asp Val Ser Lys Leu Gly Ala
139     125     130     135
140 Ser Glu Lys Asn Glu Arg Leu Leu Met Lys Pro Gln Trp His Asp
141     140     145     150
142 Leu Leu Pro Cys Lys Leu Gly Ile Trp Phe Cys Leu Thr Leu Lys
143     155     160     165
144 Ala Leu Pro His Leu Ile Gln Asp Ala Gly Gln Phe Tyr Ala Lys
145     170     175     180
146 Tyr Lys Glu Thr Arg Leu Lys Glu Lys Glu Asp Ala Leu Thr Arg
147     185     190     195
148 Thr Glu Leu Glu Thr Leu Gln Lys Gln Lys Lys Val Lys Lys Pro
149     200     205     210
150 Lys Pro Glu Phe Pro Val Tyr Thr Pro Leu Glu Thr Thr Tyr Ile
151     215     220     225
152 Gln Ser Tyr Asp His Gly Thr Ser Ile Glu Glu Ile Glu Glu Gln
153     230     235     240
154 Met Asp Asp Trp Leu Glu Asn Arg Asn Arg Thr Gln Lys Lys Gln
155     245     250     255
156 Ala Pro Glu Trp Thr Glu Glu Asp Leu Ser Gln Leu Thr Arg Ser
157     260     265     270
158 Met Val Lys Phe Pro Gly Gly Thr Pro Gly Arg Trp Glu Lys Ile

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Input Set : A:\ippf0728usn.app.txt
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159          275          280          285
160 Ala His Glu Leu Gly Arg Ser Val Thr Asp Val Thr Thr Lys Ala
161          290          295          300
162 Lys Gln Leu Lys Asp Ser Val Thr Cys Ser Pro Gly Met Val Arg
163          305          310          315
164 Leu Ser Glu Leu Lys Ser Thr Val Gln Asn Ser Arg Pro Ile Lys
165          320          325          330
166 Thr Ala Thr Thr Leu Pro Asp Asp Met Ile Thr Gln Arg Glu Asp
167          335          340          345
168 Ala Glu Gly Val Ala Ala Glu Glu Glu Gln Gly Asp Ser Gly
169          350          355          360
170 Glu Gln Glu Thr Gly Ala Thr Asp Ala Arg Pro Arg Arg Arg Lys
171          365          370          375
172 Pro Ala Arg Leu Leu Glu Ala Thr Ala Lys Pro Glu Pro Glu Glu
173          380          385          390
174 Lys Ser Arg Ala Lys Arg Gln Lys Asp Phe Asp Ile Ala Glu Gln
175          395          400          405
176 Asn Glu Ser Ser Asp Glu Glu Ser Leu Arg Lys Glu Arg Ala Arg
177          410          415          420
178 Ser Ala Glu Glu Pro Trp Thr Gln Asn Gln Gln Lys Leu Leu Glu
179          425          430          435
180 Leu Ala Leu Gln Gln Tyr Pro Arg Gly Ser Ser Asp Arg Trp Asp
181          440          445          450
182 Lys Ile Ala Arg Cys Val Pro Ser Lys Ser Lys Glu Asp Cys Ile
183          455          460          465
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195 <223> OTHER INFORMATION: Incyte ID No: 1919301CD1
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200 Arg Leu Leu Gln Ala Arg Gly Phe Pro Gln Asn Ser Ala Pro Ser
201      20          25          30
202 Leu Gly Leu Gly Ala Arg Thr Tyr Ser Gln Gly Asp Cys Ser Tyr
203      35          40          45
204 Ser Arg Thr Ala Leu Tyr Asp Leu Leu Gly Val Pro Ser Thr Ala
205      50          55          60
206 Thr Gln Ala Gln Ile Lys Ala Ala Tyr Tyr Arg Gln Cys Phe Leu
207      65          70          75
208 Tyr His Pro Asp Arg Asn Ser Gly Ser Ala Glu Ala Ala Glu Arg
209      80          85          90
210 Phe Thr Arg Ile Ser Gln Ala Tyr Val Val Leu Gly Ser Ala Thr

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211          95          100          105
212 Leu Arg Arg Lys Tyr Asp Arg Gly Leu Leu Ser Asp Glu Asp Leu
213          110          115          120
214 Arg Gly Pro Gly Val Arg Pro Ser Arg Thr Pro Ala Pro Asp Pro
215          125          130          135
216 Gly Ser Pro Arg Thr Pro Pro Pro Thr Ser Arg Thr His Asp Gly
217          140          145          150
218 Ser Arg Ala Ser Pro Gly Ala Asn Arg Thr Met Phe Asn Phe Asp
219          155          160          165
220 Ala Phe Tyr Gln Ala His Tyr Gly Glu Gln Leu Glu Arg Glu Arg
221          170          175          180
222 Arg Leu Arg Ala Arg Arg Glu Ala Leu Arg Lys Arg Gln Glu Tyr
223          185          190          195
224 Arg Ser Met Lys Gly Leu Arg Trp Glu Asp Thr Arg Asp Thr Ala
225          200          205          210
226 Ala Ile Phe Leu Ile Phe Ser Ile Phe Ile Ile Ile Gly Phe Tyr
227          215          220          225
228 Ile
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237 <223> OTHER INFORMATION: Incyte ID No: 2012055CD1
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243 20 25 30
244 Tyr Gln Lys Leu Ile Leu Met Tyr His Pro Asp Lys Gln Ser Thr
245 35 40 45
246 Asp Val Pro Ala Gly Thr Val Glu Glu Cys Val Gln Lys Phe Ile
247 50 55 60
248 Glu Ile Asp Gln Ala Trp Lys Ile Leu Gly Asn Glu Glu Thr Lys
249 65 70 75
250 Arg Glu Tyr Asp Leu Gln Arg Cys Glu Asp Asp Leu Arg Asn Val
251 80 85 90
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